explicit.²⁵ In the other case, the Cartesian model is fundamentally revised. of matter and motion (including God's causal role therein) are made are.)24 In the one case, then, certain aspects of Descartes's own metaphysics and the phenomena would be entirely different from what they, in fact, (Leibniz insists that if bodies were mere extension, then the laws of motion superior to material notions" the other hand, there must be some force in bodies, some "vital principle and metaphysical foundation in force. Yet their respective solutions to this and its laws (as well as other dynamical properties of bodies) a firm causal Both the occasionalist and Leibniz are, in essence, trying to give motion to why the sequences of things and their states are such as they are. Most force must be located outside of bodies, in the will of God. For Leibniz, on problem are sufficiently different to prevent confusion between the two. lem, 22 but rather the problem of saving mechanistic explanations in physics. bequeathed by Cartesian metaphysics—not, indeed, the mind-body probimportant, perhaps, both doctrines are answers to the same problem finite created substances. Both refer to God as the ultimate explanation as two causal doctrines. Both deny that there is any real interaction among The occasionalist, for whom a body is nothing but extension, insists that To be sure, there are important and unmistakable similarities between the to explain why bodies behave as they do.23

preestablished harmony. Leibniz believes) no way of mistaking God's direct and immediate causal plays an important causal role in both accounts, there is surely (or so substances have any causal efficacy whatsoever. And while God certainly noninteractive) activity or power, the other of which denies that such role under occasionalism for his somewhat indirect and mediate role in the Thus, one cannot but find irreconcilable differences between two theoone of which grants to finite substances a genuine causal (albeit

critically comparing the two doctrines. Taken together, the essays provide a of non-Cartesian interactionist models and of Descartes's own views on nating seventeenth-century thought on causation. They range from studies several of them engage in the important (but heretofore neglected) task of causation to analyses of occasionalism and the preestablished harmony; rather broad and detailed picture of the nature of causal relations in early The chapters that follow are all new contributions to the project of illumi-

Garber

rtes and Occasionalism

century metaphysics. On this widely held view, the changes that one body in a mind in producing a sensation, or that a mind can cause in a body in appears to cause in another upon impact, the changes that a body can cause The doctrine of occasionalism was, of course, central to seventeenthproducing a voluntary action are all due directly to God, moving bodies or producing sensations in minds on the occasions of other appropriate events. the sensory organs are moved, and then produces the sensory idea I have of organs when the light approaches them, moves the parts of the brain when the brain And so, on this view, the tickling of the retina and subsequent changes in an appropriate state. Similarly, it is God who is the actual cause of my friend in another person's face in my mind when my sense organs and brain are in the distance; the real cause is God, who directly moves my sense are only the "occasional causes" of the sensory idea I have of a

solve; see his letter to Arnauld of 30 April 1687. Although Leibniz himself believes that this is a problem that they are both intended to

Specimen Dynamicum, GM IV, 242.

Discourse on Metaphysics §21.

See, for example, Principles of Philosophy II.36

arm's movement when I decide to raise it to wave; my volition is only an

lowers.2 But to what extent is it really Descartes's own view? To what extent is it fair to attribute this view to the founder of the Cartesian school? its seventeenth-century career it is closely associated with Descartes's folers; it can be found in various forms in Clauberg, Clerselier, Cordemoy, This is the question that I shall explore here. La Forge, Geulincx, and, most notably, in Malebranche.1 And throughout Now, occasionalism was widely held among many of Descartes's follow-

A Letter to Elizabeth

wrote to the Princess Elizabeth on 6 October 1645: begin my investigation with a passage from a letter that Descartes

nothing can happen without his will.3 as a supremely perfect being, and he would not be supremely perfect way that he is in the same way the total cause of everything, and thus from him. . . . God is the universal cause of everything in such a if something could happen in the world that did not derive entirely me, that he is also the cause of all of them that depend on it [i.e., free will]. For one can only prove that he exists by considering him depend on the free will of men, prove in the same way, it seems to the first and immutable cause of all of the effects which do not All of the reasons which prove the existence of God and that he is

for example, Joseph Prost, Essai sur l'atomisme et l'occasionalisme dans la philosophie cartésienne Cartesianismus (Stuttgart-Bad Cannstatt: Friedrich Frommann Verlag, 1966), chs. II and III. 1973), pp. 141-46; and Rainer Specht, Commercium mentis et corporis: über Kausalvorstellungen im Jean-François Battail, L'avocat philosophe Géraud de Cordemoy (The Hague: Martinus Nijhoff, (Paris: Paulin, 1907); Henri Gouhier, La vocation de Malebranche (Paris: J. Vrin, 1926), ch. III; 1. For general accounts of occasionalism among the members of the Cartesian school, see,

of the philosopher's collected correspondence. On La Forge, see Gouhier, Clerselier letter to my attention. occasions and that Clerselier published alongside Descartes's own letters in one of his volumes central points of a letter Clerselier, Descartes's literary executor, wrote to integral part of La Forge's commentary on Descartes's Treatise on Man, and it is one of the Malebranche, pp. 93-94; for the Clerselier letter, see Claude Clerselier, Lettres de M' Descartes December 1660, a letter that appeals to the authority of "nostre Maistre" on a number of 2. Indeed, when it first appears, it is closely associated with Descartes himself. It is an [tome III] (Paris, 1667), pp. 640-46. I am indebted to Alan Gabbey for calling the La vocation de

Descartes's correspondence in 1657. AT IV, 313-14 (K 180). This letter appeared in the first volume of Clerselier's edition of

> as Descartes was an occasionalist. cause of everything in the world; if "nothing can happen without his will," This passage would seem to be quite clear in asserting that God is the real tells Elizabeth, then surely it is reasonable to infer that

important to place it in context, and understand what exactly wrote: console Elizabeth in her troubles. In a letter of 30 September 1645, she was addressing in the passage. In this series of letters, Descartes is trying to passage is not so clear as it may look at first. When reading this, it is very He may, in the end, turn out to be an occasionalist, but I think that this Descartes

appears to us to be entirely free. . . . nature and from the order which he has established there [as when in the misfortunes that come to us from the ordinary in those [misfortunes] which are imposed on us by men, whose will through an infection in the air, or our friends through death] but not [The fact] of the existence of God and his attributes can console us we lose some good through a storm, or when we lose our health

occasionalism from this commonplace observation, and conclude that 11 H cal omnipotent, and benevolent God. In saying this, Descartes does not take Elizabeth are meant as consolation, not metaphysics. Descartes held that God is the only real cause in nature; his himself to be saying anything particularly original; it is, indeed, a theologibeings acting freely, are under the ultimate control of an omniscient, Descartes's reply, as quoted above, is that all things, including human is not appropriate to infer the full-blown metaphysical doctrine various theological traditions to take the issue of occasionalism seriously,5 commonplace. While these kinds of theological issues have led thinkers

then mind-body causation (voluntary motions in human beings), and finally first the case of body-body causation (one billiard ball hitting another), body-mind causation (sensation). physical writings. I will divide the investigation into three parts, discussing have to The question of Descartes's occasionalism is still open. To settle it we turn to a more detailed investigation of his metaphysical and

and Human Action: Essays in the Metaphysics of Theism, ed. Thomas V. Morris (Ithaca, Cornell University Press, 1988). "Medieval Aristotelianism and the Case against Secondary Causation in Nature," in Divine For a recent discussion of some of this larger theological debate, see Alfred Freddoso,

The Case of Body-Body Causation

physical world of extended substance. To understand why, let me turn for of bodies, that bodies cannot themselves be genuine causes of change in the that, for Descartes, God is the only cause of motion in the inanimate world I will not pause (too) long over this case. It seems to me as clear as anything moment to Descartes's reflections on motion and its laws.6

of things in those terms. what these basic tendencies were and in explaining the manifest properties have basic, inborn tendencies to behavior; physics consisted in finding out thing had its own substantial form, and it was through this that the basic taught in the schools. Basic to the physics of the schools was the notion of sition to an Aristotelian one, as a substitute for the kind of physics that was because of their forms, for example. In this way, things were thought to properties of things were to be explained. And so fire rises and stones fall substantial form. According to the Aristotelian physics, each kind of Descartes's conception of physics must be understood as being in oppo-

elimination of these substantial forms, these basic explanatory principles. is, it is God, not substantial forms, that will ground the laws that govern govern the behavior of things in these forms, he placed them in God. That Descartes's strategy was simple; instead of locating the basic laws that contemporary adherents of the so-called mechanical philosophy, was the But how, then, are A basic move in Descartes's philosophy, something he shared with other we to explain the characteristic behavior of bodies?

doctrine of continual re-creation. Descartes writes in Meditation III: Descartes How God grounds the laws of motion is illustrated in the proofs that gives for them. These proofs are grounded in his celebrated

each of which is entirely independent of the others, so that from the fact that I existed a short time ago, it does not follow that I ought to moment, that is, conserves me. exist now, All of the time of my life can be divided into innumerable parts, unless some cause as it were creates me again in this

Now, he argues

Metaphysical Physics (Chicago: University of Chicago Press, 1992). AT VII, 49

> plainly the same force and action is needed to conserve any thing creating it anew, had it not existed.8 the individual moments in which it endures as was needed for for

created in the beginning. of bodies, too, must be caused by God, who sustains the physical world he produce or conserve itself."11 And so, we must conclude that the duration existence. And as with the idea of ourselves, "when I examine the idea of souls, but all finite things that require some cause for their continued conclusion, of course, holds for bodies as well as it does for us. It is not just And body, I perceive that it has no power [vis] in itself through which it can would also have been able to give myself all of the perfections I clearly lack. Clearly such a power is not in us; if it were, then, Descartes reasons, I so, he concludes, it must be God that creates and sustains us. 10 This

ple, of 1644. Arguing for his conservation principle in the Principles (for examlaws This view of divine sustenance underlies Descartes's derivations of the the law that God maintains the same quantity of motion in the world), cartes writes: of motion, both in The World of 1633 and in the Principles of Philosophy

the same way and with the same laws [eadenque ratione] with which to argue for an inconstancy in him. From this it follows, and which we perceive or believe happen without any change in the changes which evident experience or divine revelation render certain, constant and immutable way. Therefore, with the exception of those motion in it. 12 he created them earlier, he always conserves the same amount of fact that God moved the parts of matter in different ways when he most in harmony with reason for us to think that merely from the he is in himself immutable, but also because he works in the most first created them, and now conserves the totality of that matter in creator, we should suppose no other changes in his works, so as not We also understand that there is perfection in God not only because that it is

move rectilinearly, as that argument is given in the Principles: Similarly, consider his argument for the law that a body in motion tends to

- 9 See AT VII, 48, 168
- 10. See AT VII, 49-50, 111, 165, 168, 369-70; and Principles of Philosophy 1.21.
- AT VII, 118; see also p. 110.
- Principles of Philosophy II.36.

^{6.} For a fuller account of Descartes on the laws of motion, see Daniel Garber, Descartes'

and never following a curved line. 13 designated while it is moving, everything that moves is determined to continue its motion in some direction, following a straight line, instant, it is obvious that in the individual instants that can be have been a bit earlier. And although no motion takes place in which he conserves it, without taking into account the way it might of the operation through which God conserves motion in matter. For he conserves it precisely as it is in the very moment of time in The reason [causa] for this rule is . . . the immutability and simplicity

sustaining the motion of bodies. nism, forms are out, and God is in; in Descartes's new philosophy, the characteristic behavior of bodies is explained in terms of an immutable God old Aristotelian philosophy, the characteristic behavior of bodies was explained through substantial forms; in Descartes's new, up-to-date mechabehind the world of bodies and is the direct cause of their motion. In the The picture in both of these arguments is reasonably clear: God stands

pause a moment and examine one complexity in the case. difficult cases of mind-body and body-mind causation, I would like to at least one of them later. But before moving on to the somewhat more subtletics in the argument that I will set aside for the moment, returning to least, God is the only I think that it is reasonably clear, then, that in the material world, at genuine causal agent. There are some further

in time. Now, in this world, some bodies are at rest, while others are in impulse from God. Writing to Descartes on 5 March 1649, More asked if alternative view, what God sustains is a world of bodies existing continually like frames in a movie film. On this view, God is conceived to cause motion But Descartes sometimes suggests something a bit different. by re-creating bodies in different places in different frames of the movie, as re-creating a succession of discrete, timeless world stages, one after another, can find in Descartes for this.14 On one model, God sustains the world by seems to me that there are at least two somewhat different models that one pulls it off. motion in the physical world, it is not at all clear how he does it, how he Though it is clear that God is the real agent of change, the real cause of We might call this the cinematic view of how God causes motion. Those in motion, Descartes sometimes suggests, receive a kind of Though it is not appropriate to argue it in full detail here, it On this

or be at rest?15 matter, whether we imagine it to be eternal or created yesterday, left to itself, and receiving no impulse from anything else, would move

Descartes answered:

conserving the same amount of motion or transference in it as he anything else" as plainly being at rest. But it is impelled by God, I consider "matter left to itself and receiving no impulse put there from the first. 16

motion by impulse, by a kind of divine shove. On this view, what might be called the divine-impulse view, God causes

cinematic view and the divine-impulse view of God as a cause of motion will come in very handy when we are discussing Descartes's thoughts on mindcause of motion. But this distinction I have tried to make between the body causation, to which we must now turn. It is interesting to try to understand how Descartes thought of God as a

III. The Case of Mind-Body Causation

the of motions in the physical world, and to what extent does he believe, with world of bodies? what extent does Descartes think that there can be genuine mental causes more ink has been spilled. But my interest in it here is relatively narrow: To Cartesian scholarship; there are few issues in his philosophy about which The problem of mind-body causation is, of course, a central concern of majority of his followers, that God is the true cause of motion in the

motion in the world, indeed, as genuine a cause as God himself. reasonably clear: for Descartes, I think, mind can be a genuine cause of Here, as on the issue of body-body causation, I believe that the case is

tions. strong version of occasionalism, where God can be the only cause of change the God's role as continual re-creator, that which underlies the derivation of But though the case is, in the end, clear, it is not without its complicalaws of motion, as we have seen, would seem to lead us directly to a As a number of later philosophers have noted, Descartes's views on

Principles of Philosophy II.39.

or Daniel Garber, "How God Causes Motion: Descartes, Divine Sustenance, and Occasional-14. For a fuller development of this idea, see Garber, Descartes' Metaphysical Physics, ch. 9, Journal of Philosophy 84 (1987): 567-80.

^{16.} AT V, 404 (K 258). AT V, 316.

in the physical world. The argument is formulated neatly by Louis de la

everywhere, change [the position of a body] or that of any of its parts in the himself put it in place B, if he wants it there, for if he were to have wants it to continue to exist, but also, since he cannot create it example, not only is it necessary that he continue to produce it if he since it is he who had produced this part of matter in place A. second instant of its creation if the creator does not do it himself, put it somewhere else, there is no force capable of removing it from that there is no creature, spiritual or corporeal, that can nor can he create it outside of every place, he must

sustaining it where he does he causes it to move or be at rest. And so, it one place or another. 18 body is from moment to moment, it must work through God, who alone world, in particular, mind; if mind is to have a role to play in where a given seems, there is no room for any other causes of motion in the Cartesian The argument goes from the doctrine of continual re-creation, authentically can sustain a body and who is ultimately responsible for putting a body to the conclusion that God can be the only cause of motion in When God sustains a body, he must sustain it somewhere, and in

argument it might be, I see no reason to believe that Descartes ever saw such consequences as following out of his doctrine of continual re-creation. on Descartes. It is certainly persuasive, particularly if one takes what I called But, more than that, I do not think that the argument is necessarily binding This argument is not decisive, I think. First of all, however good an

branche's Dialogues on Metaphysics. de France, 1974), p. 240. A similar argument can also be found in Dialogue VII of Male-17. Louis de la Forge, Oeuvres Philosophiques, ed. Pierre Clair (Paris: Presses Universitaires

minds with the states that they have as much as he must sustain bodies in the places that they the term, see Battail, L'avocat philosophe, pp. 141-46, this is hardly worth taking scriously as an argument. See also Jean Laporte, Le rationalisme de several passages in which Descartes uses the word 'occasion' to characterize particular causal occupy. To these arguments from continual re-creation, one might also call attention to the to hold for the causes of states of mind as well, insofar as the divine sustainer must sustain n. 10; for a general discussion of the language of indirect causality in Descartes and the later philosophiques, ed. P. Clair and F. Girbal (Paris: Presses Universitaires de France, 1968), p. Descartes (Paris: Presses Universitaires de France, 1950), pp. 225-26. For general discussions of relations (see Prost, Essai). But as argued in Gouhier, La vocation de Malebranche, pp. 83-88, Scholastics, see Specht, Commercium mentis et corporis, chs. II and III. Though the argument concerns motion, states of body, and their causes, it would seem and Géraud de Cordemoy,

> motion distinct from God. 19 that view, God causes motion by providing an impulse, much as we take of time. But the argument is considerably less persuasive if one takes what motion, then his activity in sustaining bodies is distinct from his activity in ourselves to move bodies by our own impulses. If this is how God causes causes motion by re-creating a body in different places in different instants the cinematic view of God as a cause of motion, the view in which God earlier called the divine-impulse view of God as a cause of motion. On motion, and there is no reason why there cannot be causes of

More: remains to be shown that he thought that there are such causes. question comes up quite explicitly in Descartes's last response to Henry There can be causes of motion for Descartes other than God. But it still

shape is, namely, it is a mode in body. However the force [vis] that of a created substance, like our mind, or something else to in matter as he placed in it at the first moment of creation or also moving a [body] can be that of God conserving as much transference That transference that I call motion is a thing of no less entity than which [God] gave the power [vis] of moving a body.20

More in April 1649, he remarks: understand how God does it, Descartes sometimes argues. Writing to Henry God's direct help, as the occasionalists would hold; Indeed, our ability to suggestion in this passage that minds can cause motion in bodies only with our minds, have the ability to cause motion. Furthermore, there is no Descartes is here quite clear that some created substances, at the very least cause motion in the world of bodies is the very model on which we

and to his creatures, I confess, nevertheless, that I can find no idea in move matter, which is different from the idea that shows me the way my mind which represents the way in which God or an angel car Although I believe that no mode of acting belongs univocally to God in which I am conscious that I can move my own body through my

occasional causes of motion in the world. At least two passages in the It would then be quite strange if Descartes held that minds are only the

This argument is developed at greater length in Garber, "How God Causes Motion."

AT V, 403-4 (K 257).

have the power [vis] for moving bodies, but we reserve this for our treatise think, we should take him completely at his word when on 29 July 1648 he experience or divine revelation render certain, and which we perceive or be incorporeal causes of bodily change, that is to say, motion. And so, I On Man."23 Again, Descartes is leaving open the possibility that there may all changes that can happen in bodies, "at least those that are corporeal, for believe happen without any change in the creator."22 Such a proviso would we are not now inquiring into whether and how human minds and angels addition to God, minds could cause motion in the world. In defending the Principles also suggest that he meant to leave open the possibility that, in writes to Arnauld: be genuine causes of motion. Similarly, in presenting his impact law (law certainly leave open the possibility that finite substances like our minds can conservation principle, for example, Descartes argues that we should not admit any changes in nature "except for those changes, which evident in the Principles II.40, Descartes claims that the law covers the causes of

shown to us every day by the most certain and most evident anything else.24 experience, without the need of any reasoning or comparison with That the mind, which is incorporeal, can set a body in motion is

absolutely impossible that Descartes meant to include bodies among the creatures also capable of causing motion, like us and like God.25 It is not of ourselves as causes of motion, Descartes explicitly includes angels as we can comprehend God as a cause of motion through the way we conceive angels are also a lively topic of conversation in the earlier letters between finite substances that can cause motion.26 But I think that it is highly Descartes and More. Indeed, when Descartes is discussing with him how moment and examine a question raised by the passage from the letter to the last case, that of body-mind causation in sensation, I will pause for a body causation for him, it would seem. But before going on to examine Angels are certainly included, the passage from Principles II.40 suggests; More that we have been examining: What is the "something else to which God] gave the power [vis] of moving a body" to which Descartes refers? Minds can cause motion in Descartes's world; there is genuine mind-

one another; this reading of Descartes's view of inanimate motion seems of change of motion in the inanimate world of bodies knocking up against immutability of God presupposes that God is the real cause of motion and earlier, Descartes's whole strategy for deriving the laws of motion from the motion, this would be too important a fact to pass unmentioned. As I noted them explicitly in the answer to More; if bodies could be genuine causes of like God, us, and probably angels, I suspect that he would have included unlikely. If Descartes really thought that bodies could be causes of motion too secure to be shaken on the basis of a possibly oblique remark in a letter.

cannot change the actual motion that they have. This is certainly a position claimed, minds can change the direction with which bodies move but quantity of motion in the world must always remain constant. And so, it is in a body because to do so would violate his conservation law, that the total issue. It is a standard view that, for Descartes, mind cannot cause motion that he himself ever maintained such a view. The argument is a bit complex, that many of Descartes's later followers held. But I see no reason to believe motion from the world. and I cannot develop the details here.27 But briefly, there is no passage in may constrain God's activity, it does not in any way constrain ours; in our or subtract motion from the world. But though the conservation principle of motions, like minds. As I noted earlier, Descartes grounds the laws of E mutability and imperfection, we are completely free to add or subtract motion in God's immutability; because God is immutable, he cannot add position, and there are other passages that strongly suggest that he did not. Descartes that suggests in any but the weakest way that he ever held such a Furthermore, Descartes's conception of the grounds of the laws of motion Before going on to discuss the next case, I will take up one more brief divine immutability would seem to impose no constraint on finite causes

from Book to Minds to things is there will. But the case of IV. The Case of Body-Mind Causation

is We have established, I think, two reasonably clear cases: for Descartes, God responsible for all motion in the inanimate world; while in the world of

conservation principle) is not actually his view. which a body is moving but not add or subtract speed (thus apparently violating the that the position widely attributed to Descartes, that the mind can change the direction in Descartes posits for inanimate nature do not hold for motion caused by minds, and that, in this way, animate bodies, bodies attached to minds, stand outside the world of physics. I argue Midwest Studies in Philosophy 8 (1983): 105-33, I argue that, in fact, the laws of motion that 27. In Daniel Garber, "Mind, Body, and the Laws of Nature in Descartes and Leibniz,"

Principles of Philosophy II.36

Principles of Philosophy II. 40.

AT V, 222 (K 235)

See AT V, 347 (K 252).

Doubleday, Anchor, 1967), pp. 353-68, esp. p. 359, claims that he did include bodies here. P.H.J. Hoenen, "Descartes's Mechanism," in Descartes, ed. Willis Doney (New York:

in bodies. The last case we have to take care of is that of body-mind animate creatures, creatures like us who have souls, minds can cause motion circumstance, or must God link the cause to the effect? causation, the situation in which the motion of a body causes sensations in Again, our question is this: Is there genuine causality in this

It seems to me that if the motion of bodies is due directly to God, and if changes in minds either. This, at least, is the logic of Descartes's position. is a view that Descartes may have come to hold by the late 1640s, at least. settles the question with assurance, there is some reason to believe that this Descartes's views. It seems to me that he should be committed to the bodies cannot be genuine causes of changes in the states of other bodies. position that the body cannot be a genuine cause of sensation in the mind. While, to the best of my knowledge, there is no passage in his writings that Here, unfortunately, I know of no easy way of settling the question about would seem to follow that bodies cannot be genuine causes of

some substance different from me. . . . This substance is either body, or that is, a faculty for receiving and knowing the ideas of sensible things. But in Meditation VI:28 "Now there is in me a certain passive faculty for sensing, eminently." To show that bodies really exist, Descartes will eliminate the corporeal nature, namely, that which contains formally everything which indeed, often involuntarily," he writes. "Therefore it remains that it is in intellect, and these ideas are produced without my cooperation, argument begins. Descartes's strategy is to show that the active faculty in bringing about those ideas were either in me or in something else." So the creature nobler than body in which it [i.e., corporeal nature] is contained is in the ideas [of bodies] objectively, or it is, indeed, in God, or some other "This [active faculty] cannot be in me, since it plainly presupposes no question is not in me (i.e., my mind), or in God, or in anything but bodies. for the existence of a world of bodies. The argument first appears in 1641 themselves, or else God would be a deceiver. I could make no use of it unless a certain active faculty for producing or latter two possibilities, and show that the active faculty must be in bodies The evidence I have in mind is connected with the proof Descartes offers

implication is that the body that exists in the world is the cause of my faculty" that corresponds to the "passive faculty" of sensation; the clear The argument in Meditation VI clearly asserts that bodies have an "active

argument, see Martial Gueroult, Descartes' Philosophy Interpreted According to the Order of California Press, 1986), pp. 104-7. XIV; Daniel Garber, "Semel in Vita: The Scientific Background to Descartes's Meditations," in Essays on Descartes' "Meditations," ed. Amélie Rorty (Los Angeles and Berkeley: University of Reasons, trans. Roger Ariew (Minneapolis: University of Minnesota Press, 1984), vol. II, ch. 28. The quotations below all come from AT VII, 79-80; for fuller treatment of the

> as Ħ sensation of it. The same basic argument comes up again, a few years later, part II, section 1, of the Principles of Philosophy of 1644, where it begins follows:

our power to bring it about that we sense one thing rather than very thing that affects our senses. another; rather, this [i.e., what we sense] plainly depends upon the Now, it can scarcely be doubted that whatever we sense comes to us from some thing which is distinct from our mind. For it is not in

thing other than bodies. Talking about that from which the sensory idea proceeds, he says: whether the sensation might proceed from me, from God, or from some-As in the Meditations, Descartes goes on to examine the question as to

similar, and, as we have already observed, it is plainly repugnant to placed outside of us, things to which it [i.e., the idea] is altogether we seem to ourselves clearly to see that its idea comes from things from God and from us (that is, different from our mind) and also the nature of God that he be a deceiver. [W]e clearly understand that thing as something plainly different

And so, Descartes concludes, the sensory idea proceeds from a body.

sensations I have, and the ultimate conclusion is that that active faculty is object of that sensation seems studiously noncausal; we all believe, Descartes uses to describe the relation between our sensation and the body that is the there is no appeal to an active faculty. Indeed, the terminology Descartes faculty for sensing"; what we seek is the active faculty that causes the tells us, that "whatever we sense comes to us [advenit] from something found in bodies. But, interestingly enough, in the argument of the Principles Meditation VI starts with the observation that I have "a certain passive Meditations. But there is at least one crucial difference. version of Principles II.1, which we have been discussing, and the French Descartes here is suggested further by a variant that arises between the Latin [advenire] things placed outside of us." The concern I have attributed to which is distinct from our mind," that the idea of body "comes from version published three years later in 1647. In the Latin, the crucial phrase reads as follows: The argument in the Principles is obviously similar to the one in the The argument in

things placed outside of us. . . . We seem to ourselves clearly to see that its idea comes from

Principles of Philosophy II.1, Latin version.

In the French translation, the phrase reads:

occasion of bodies from without. 30

One must, of course, be very careful drawing conclusions from variants between the Latin text and Picot's French translation; while some alternatives are clearly by Descartes, it is often unclear whether a given change is due to the author or to his translator. But this change is consistent with the trend already observed between Meditation VI and *Principles* II.1, Latin version, and weakens the causal implications further still. Rather than asserting that the idea *comes from* the thing, the French text says only that it "forms itself in us on the occasion of bodies from without." Furthermore, while it is by no means clear how to interpret the word 'occasion' in Descartes's vocabulary, the word is certainly suggestive of what is to become a technical term in later Cartesian vocabulary, that of an occasional cause, a cause whose effect is produced through the activity of God.³¹

It is difficult to say for sure why the two arguments differ in this respect, and one should always be open to the explanation that, as Descartes suggests in a number of places, metaphysical issues are taken up in the *Principles* in a somewhat abbreviated and simplified fashion, and that the *Meditations* must be regarded as the ultimate source for his considered views in that domain. ³² But it is tempting to see in this variation the shadow of an important philosophical question Descartes was facing. It is possible that he eliminated the reference to an active faculty precisely because he was no longer certain that bodies could correctly be described as active causes of our sensations. The language he substitutes is, of course, consistent with bodies being active causes of sensations, as he may well have believed; but it is also consistent with a weaker view, on which our sensations *come from* bodies, but with the help of an agent, like God, distinct from the bodies themselves, which, in the strictest sense, are inert.

There is another place that is sometimes thought to support the attribution of occasionalism to Descartes. The passage I have in mind is the celebrated one from the *Notae in Programma* (1647):

Nothing reaches our mind from external objects through the sense organs except certain corporeal motions. . . . But neither the motions

themselves nor the shapes arising from them are conceived by us exactly as they occur in the sense organs, as I have explained at length in my *Dioptrics*. Hence it follows that the very ideas of the motions themselves and of the shape are innate in us. The ideas of pain, colors, sounds, and the like must be all the more innate if, on the occasion of certain corporeal motions, our mind is to be capable of representing them to itself, for there is no similarity between these ideas and the corporeal motions.³³

dissimilarity, the fact that the sensory idea is nothing like the motions that stimulation and the resulting sensory idea; what worries him is their utter worry here is not (primarily) the causal connection between the sensory the mind is, I think, irrelevant to the issue of Descartes's occasionalism. His it is important to recognize that the claim that the sensory idea is innate in use of the corresponding French word in the French translation of the sentence on the same page) does lend some support to the claim that the for the way in which Descartes is thinking about body-mind causality. But Principles, published in the same year, is no accident, and may be significant color monitor capable of displaying complicated graphics and pictures. cause it. To make an analogy, consider, for example, a computer with a Suppose that if I tap in a certain sequence of keystrokes, a picture of the The use of the word 'occasion' in this context (as well as in a previous quoted from the Notae in Programma; in this case, as in the computer case, that the situation is similar with respect to Descartes's point in the passage somehow connected the keyboard with the screen of the monitor. I think picture; and one certainly would not want to infer that it was God who cause of the picture's appearing, that the keystrokes did not really elicit the want to infer from that that the keystrokes are not in some sense the direct the machine, that is, stored in its memory. But one probably would not might infer from that fact to the claim that the picture must be innate in causally produce the picture in no way "resembles" point out that the actual sequence of motions (i.e., the keystrokes) that Notre Dame in Paris appears on the screen. One might perhaps want to are elicited by the motions communicated to the brain by the sense organs. from the motions that cause them, but must, at best, be innate ideas that Descartes's main point is simply that sensory ideas cannot come directly the picture, and one

But even though this passage does not lend much support to the view that Descartes may have come to see God as connecting bodily motions with sensations, neither does it detract from the evidence I presented earlier. And so, while the evidence is not altogether satisfactory, it seems reasonable

^{30.} Principles of Philosophy II.1, French version; emphasis added.

^{31.} See the reference given in note 18 above in connection with the word 'occasion'.

^{32.} On the relations between the Meditations and Part I of the Principles, see, for example, AT III, 233 (K 82), 259; AT V, 291 (K 246); and AT IX-2, 16.

to think that while Descartes may have seen bodies as genuine causes of certain motions in bodies. followers held, that God is the true cause of sensations on the occasion of changed his view, holding something closer to what his occasionalist publication of the Principles of Philosophy a few sensations at the time that the Meditations was published in 1641, by the years later he may

V. Was Descartes an Occasionalist?

the Cartesian school, he is not an occasionalist, strictly speaking, insofar as interaction, the causation of sensations in the mind. It thus seems clear that seems clear that God is the real cause of change in the inanimate world of physics, and it seems probable that God is the real cause behind body-mind that mind can be a genuine cause of motion in the physical world, it also causal relations as treated by Descartes in his thought. While it seems clear In the earlier parts of this chapter we have examined three different sorts of he does allow some finite causes into his world, minds at the very least. while Descartes may share some doctrines with the later occasionalists of

occasionalist when it comes to the inanimate world, though not in the Descartes in this way, we must not lose sight of an important difference certainly flexible enough to allow this. But even if we choose to view between Descartes and his occasionalist followers. world of bodies connected to minds? The doctrine of occasionalism is Might we say, on this basis, that Descartes is a quasi-occasionalist, an

infinite."34 Cordemoy argues similarly. Like Clerselier, he maintains that ness and being can only be surmounted by a power which is actually of their finitude. Clerselier, for example, argues for occasionalism by first motion in the world "because the infinite distance there is between nothingestablishing that only an incorporeal substance can cause motion in body. occasionalism is the denial of the efficacy of finite causes simply by virtue For many of Descartes's later followers, what is central to the doctrine of an incorporeal substance can be the cause of motion in a body, and he claims, only an infinite substance, like God, can imprint new

can change its direction, because, unlike motion itself, "the determination of motion . . . adds nothing real in nature . . . and says no more than the motion itself does, which cannot be without determination" (ibid.). This, though, would seem to conflict with what Descartes two modes of body that "change with equal difficulty" (AT IV, 185). himself told Clerselier in the letter of 17 February 1645, that motion and determination are finite incorporeal substance, like our mind, cannot add (or destroy) motion in the world, it 34. Clerselier, Lettres de M' Descartes . . . [tome III], p. 642. Clerselier argues that while a

> ness.37 But why is it an error to believe that finite things can be genuine most dangerous error he is referring to is their belief that finite things can infinitude of God is central to the main argument that Malebranche offers conserves it can only be "another Mind, to which nothing is lacking, that "our weakness informs us that it is not our mind which makes [a body that this incorporeal substance can only be infinite; he concludes by saying Ħ 3 "The most dangerous error in the philosophy of the ancients."36 And the the chapter in which he presents his main arguments for the doctrine is for occasionalism in his major work, De la recherche de la vérité. The title of move, causes? Malebranche argues as follows: be [which] does it [i.e., causes motion] through its will."35 And finally, the the belief that they are the genuine causes of their happiness or unhappialebranche claims, causes people to love and fear things other than God genuine causes of the effects that they appear to produce, an error that, " and so he determines that what imparts motion to bodies and

angels the power he has to move bodies. . . . 38 connection between its will and its effects. Thus God is the only true only in an infinitely perfect being that one perceives a necessary necessary connection between the cause and its effect. Now, it is that it is not conceivable that God could communicate to men or cause, and only he truly has the power to move bodies. I further say As I understand it, a true cause is one in which the mind perceives a

at all. world because only an infinite substance can be a genuine cause of anything For these occasionalists, then, God must be the cause of motion in the

simply to replace a certain set of finite causes, the substantial forms of the impositions of mind onto matter and must, as such, be rejected. But, one argued that the substantial forms of Scholastic philosophy were improper Schoolmen, which, Descartes thinks, are unavailable to do the job. He angels as causes of motion. When God enters as a cause of motion, it is motion in our bodies that we have the understanding we do of God and Ξ seems to have no particular worries about finite causes as such. If I am right, he But, as I understand it, Descartes's motivation is quite different. He the world of bodies. Indeed, it is through our own ability to cause is quite happy to admit our minds and angels as finite causes of motion

^{35.} Cordemoy, Oeuvres philosophiques, p. 143.

^{36.} Malebranche, De la recherche de la vérité VI.2.iii: OC I, 643; LO 446.

OC I, 643-46; LO 446-48.

teachers. 39 last of the Schoolmen, using God to do what substantial forms did for his God. In this way he seems less a precursor of later occasionalism than the bodies have, for their characteristic behavior? What Descartes turns to is might ask, if there are no forms, what can account for the motion that

Eileen O'Neill

Influxus Physicus

little Angel lodged in the brain, where it contemplates the little pictures which represent to it all that happens outside. species which come to it from objects, like so many diverse There is hardly anyone who does not imagine the Soul as a

Louis de la Forge, Traité de l'esprit de l'homme

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The Problem

change in created substances, which Wolff popularized, and which the Leibniz appears to have originated the tripartite division of "systems" of

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The editions frequently cited, in addition to those listed in the front of the book, will be

^{39.} Portions of this essay will also appear in Garber, Descartes' Metaphysical Physics.